### **Supplemental Material**

# **Permanent Oviduct Posteriorization Following Neonatal Exposure** to the Phytoestrogen Genistein

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p.4

#### **Table of Contents**

Supplemental Material, Table 1 p.2 Supplemental Material, Table 2 p.3 Supplemental Material, Figure 1

## **Supplemental Material, Table 1. Microarray Validation**

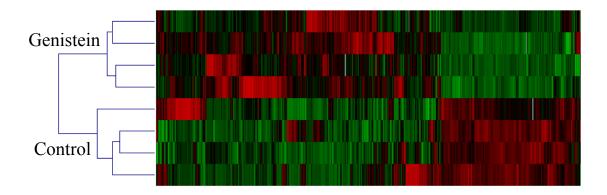
Gene	Gene Name	Array Fold Change (Gen/Control)	PCR Fold Change (Gen/Control)
Pitx1		99.30	>100*
	Paired-like homeodomain transcription factor 1		
Nkx3.1	NK-3 transcription factor, locus 1 (Drosophila)	5.90	10.10
Slc47a1	Solute carrier family 47, member 1	4.09	5.90
<i>Igj</i>	Immunoglobulin joining chain	3.80	4.10
Prlr	Prolactin receptor	2.90	3.50
Slpi	Secretory leukocyte peptidase inhibitor	2.10	2.60
Pgr	Progesterone receptor	-1.60	-1.50
Ihh	Indian hedgehog	-2.10	-2.00
Wnt7a	Wingless-related MMTV integration site 7A	-3.30	-3.00
Myh7	Myosin, heavy polypeptide 7, cardiac muscle, beta	-5.50	-5.30
Svs7	Seminal vesicle secretory protein 7	-8.50	-16.70
Ano 2	Anoctamin 2	-18.40	-50.00

<sup>\*</sup>Ct value >40 in all control samples; exact PCR fold change could not be calculated.

## **Supplemental Material, Table 2. Selected Ingenuity Biological Function Categories\***

<b>General Function</b>	Category	# genes
Metabolism	Lipid Metabolism	29
	Carbohydrate Metabolism	39
	Amino Acid Metabolism	27
	Drug Metabolism	25
Hematological	Hematological System Development and Function	74
System	Hematopoiesis	25
	Morphology of Red Blood Cells	4
Immune	Immune Cell Trafficking	45
Response	Activation of B Lymphocytes	6
	Antigen Presentation	11
	Cell-mediated Immune Response	7
	Homing of Lymphatic System Cells	9
	Cytotoxicity of Leukocytes	11
Cell Proliferation	Cellular Growth and Proliferation	202
	Cell Morphology	130
	Cell Cycle	33
	Cellular Compromise	40
	Cell Death	215
Development	Endocrine System Development and Function	17
	Reproductive System Development and Function	22
	Renal and Urological System Development and Function	10
	Skeletal and Muscular System Development and Function	17
	Cardiovascular System Development and Function	61
	Connective Tissue Development and Function	16
	Lymphoid Tissue Structure and Development	21
	Embryonic Development	41

<sup>\*</sup>Selected from biological function categories with all p-values < 0.025



Supplemental Material, Figure 1. Hierarchical cluster analysis of differentially expressed oviduct genes in control and Gen-treated mice. Four biological replicates included per group. Red, upregulated genes; green, downregulated genes.